

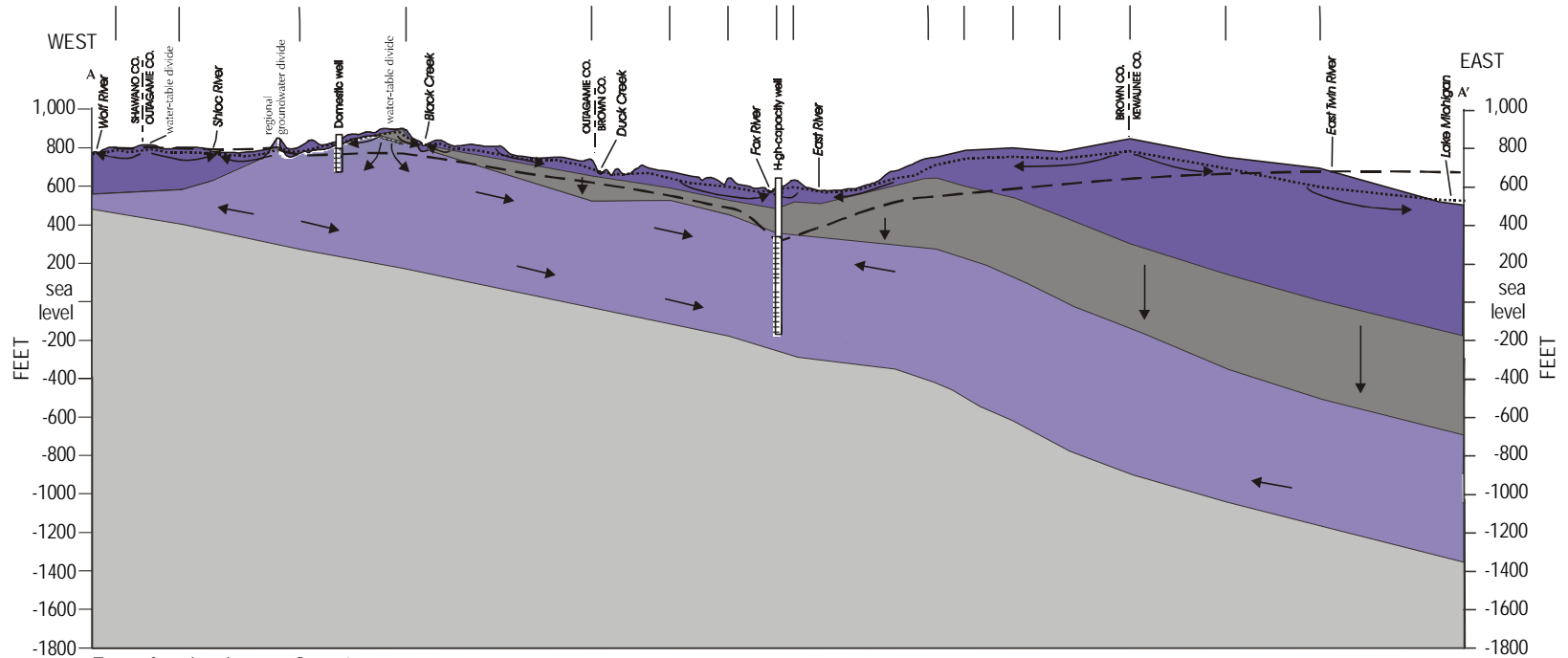


GB 96,000

Metro area 80,000

“Water, taken in moderation, cannot hurt anybody” *Mark Twain*










Conceptual Model



Trace of section shown on figure 1
Vertical scale greatly exaggerated

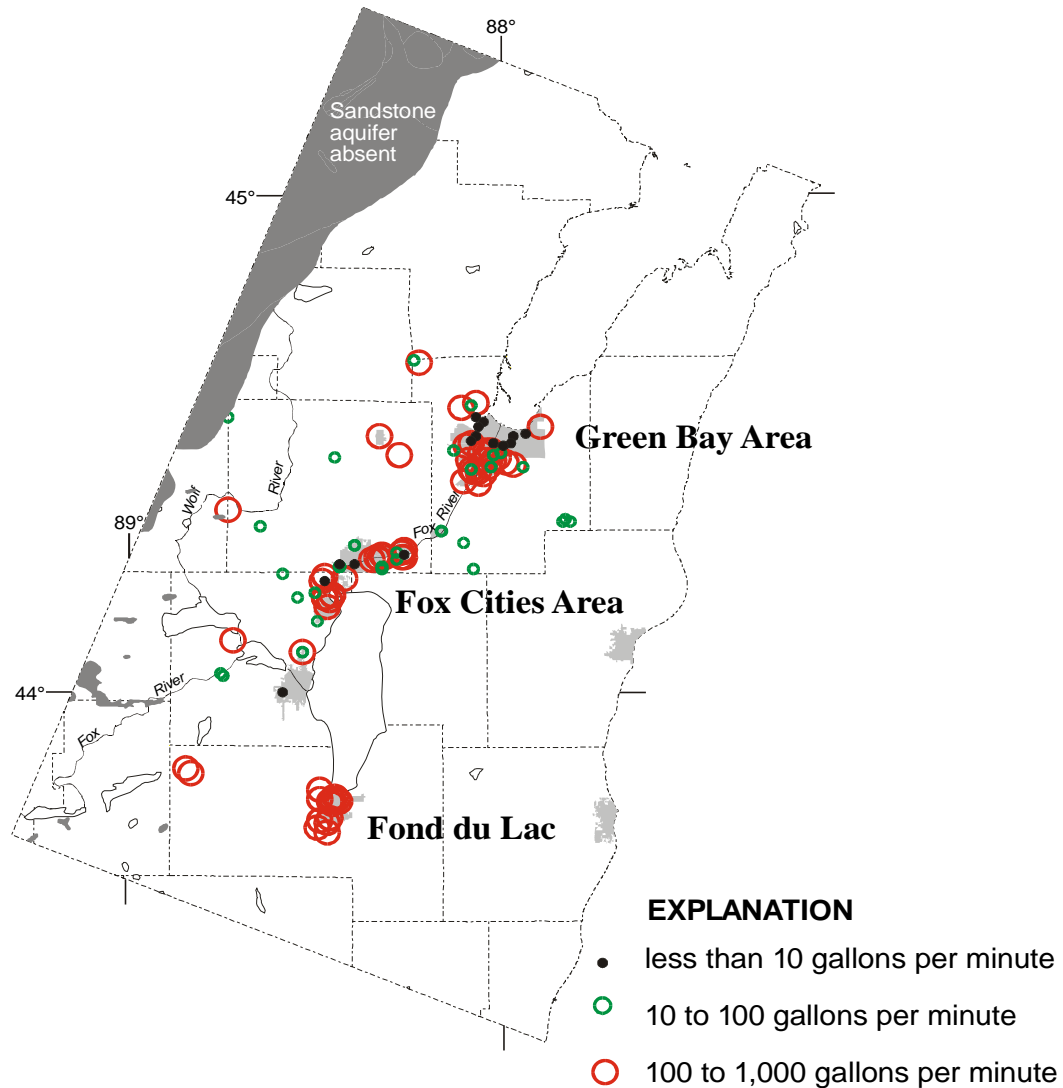
Modified from Batten and Bradbury, 1996

EXPLANATION

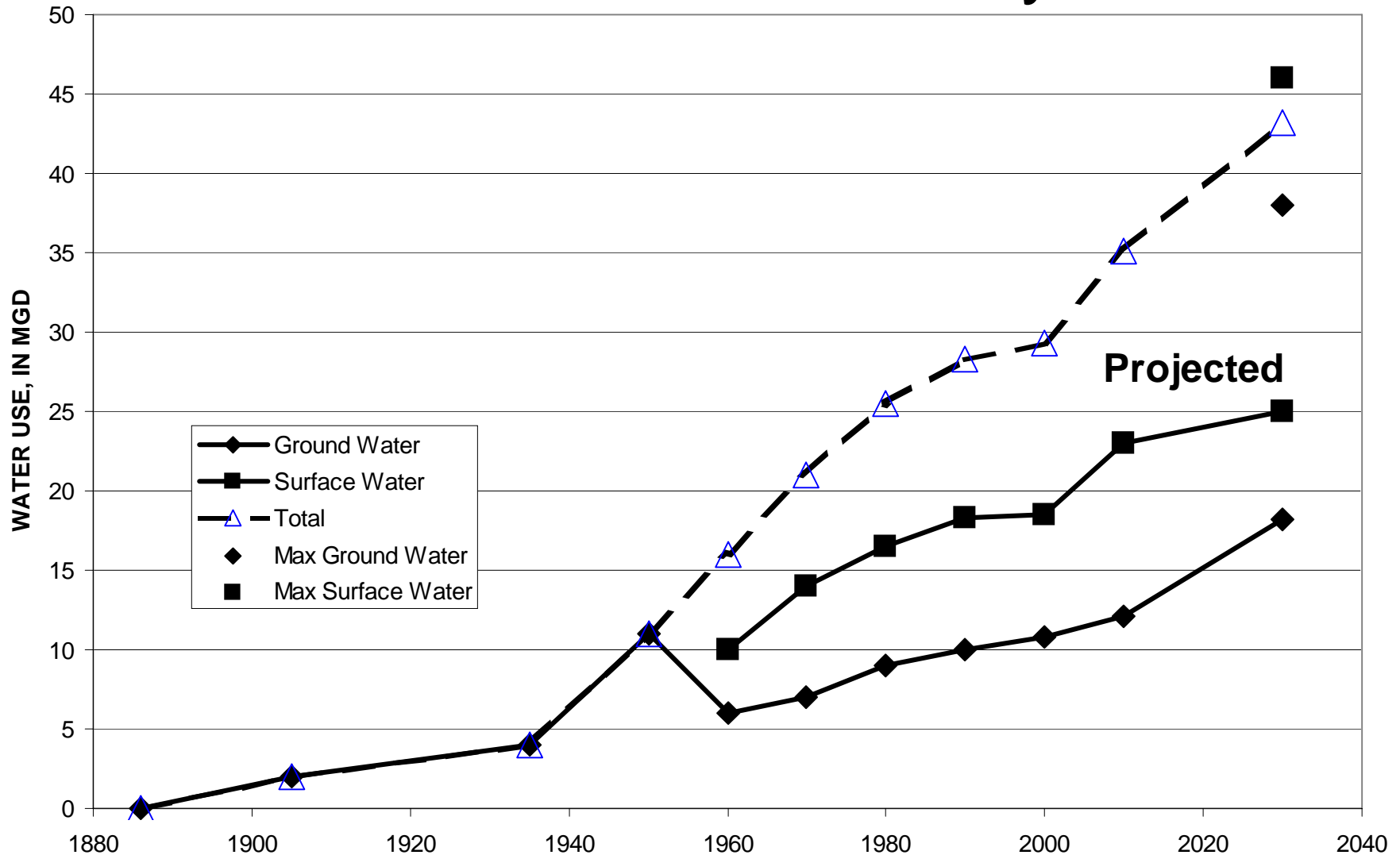
- | | |
|------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  Upper aquifer |  Water table |
|  Maquoketa-Sinnipee confining unit |  Potentiometric surface in the sandstone aquifer (based on 1990 and 1992 data) |
|  Sandstone aquifer |  General direction of ground-water flow |
|  Crystalline rocks (base of ground-water flow system) |  Hypothetical well |
| |  Turning point of section |

0 1 2 3 4 5 MILES
0 1 2 3 4 5 KILOMETERS

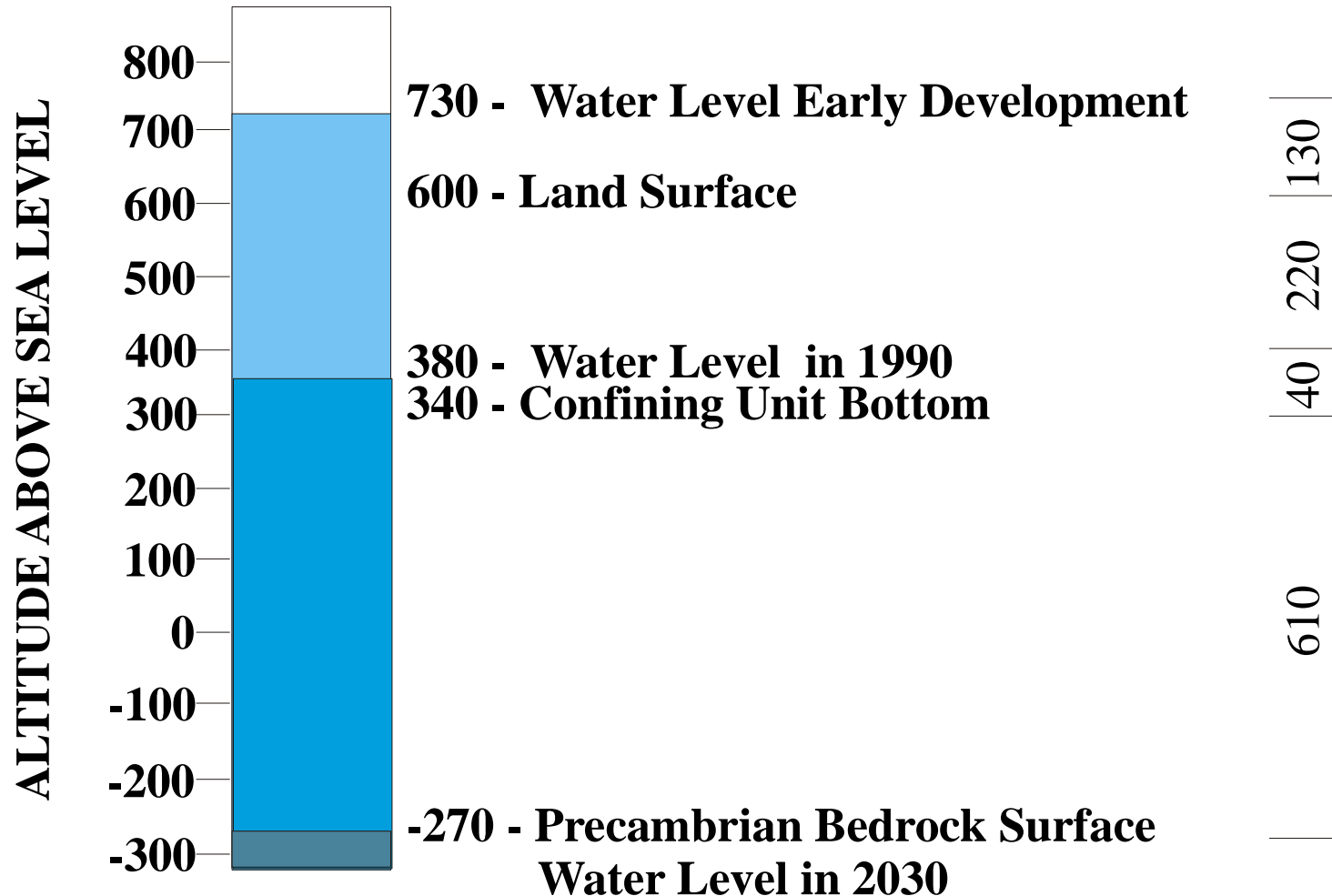
Pumping Centers



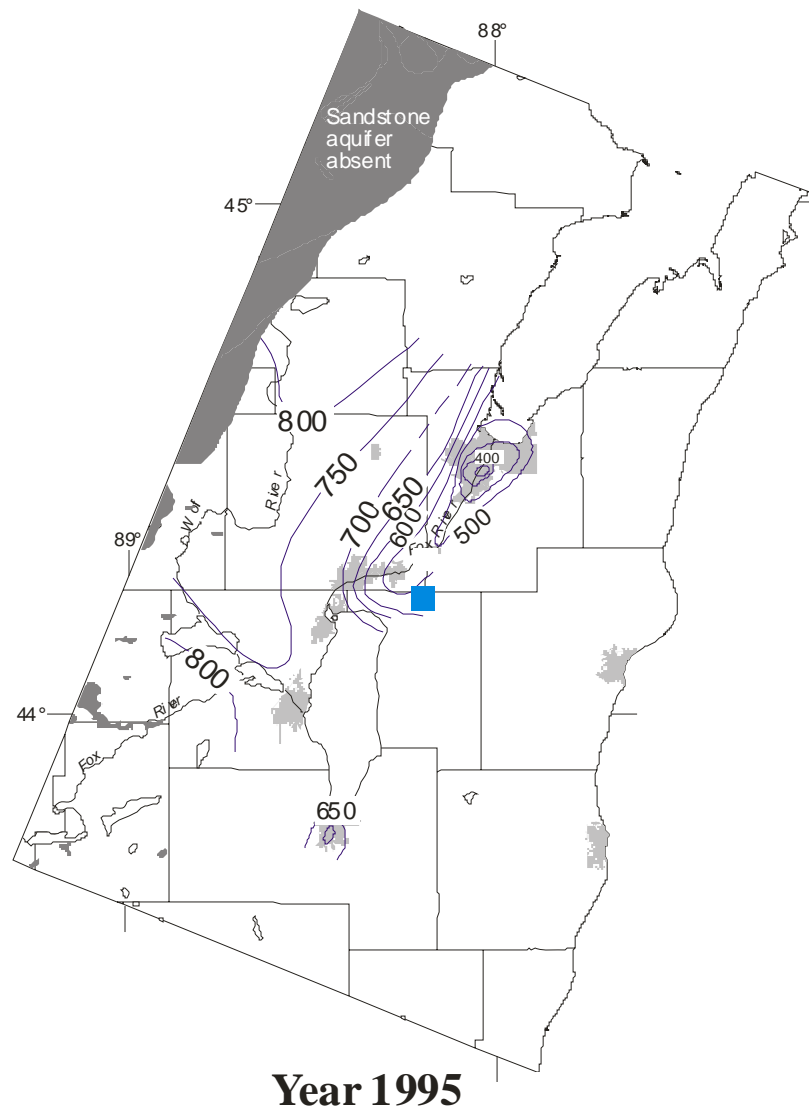
Historic and Projected Water Use Central Brown County



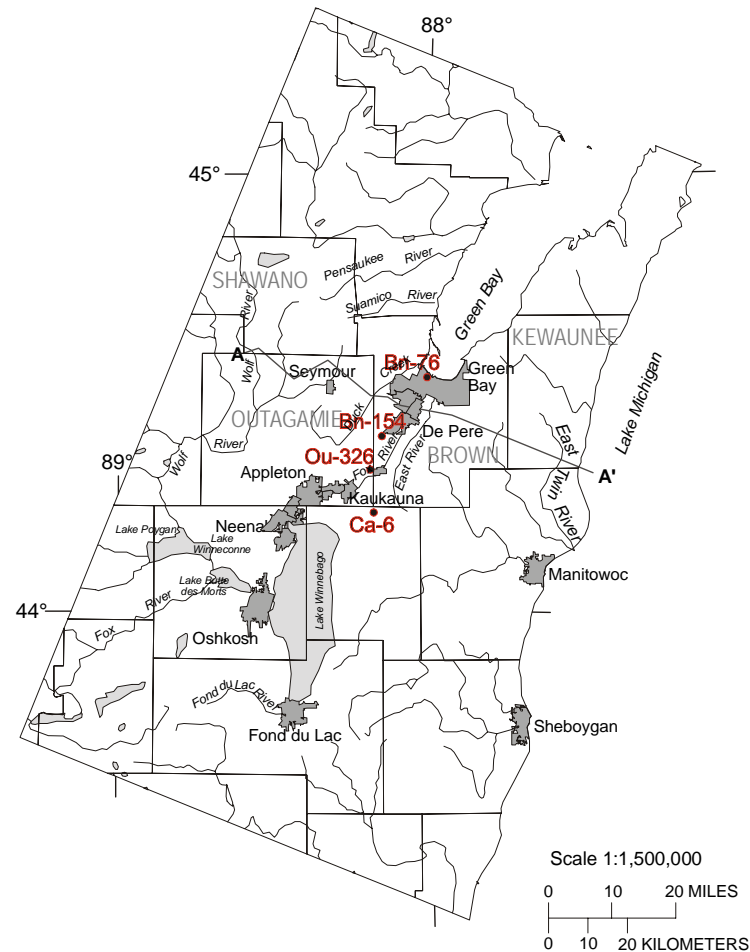
Green Bay Metropolitan Area



Measured Potentiometric Surface 1995

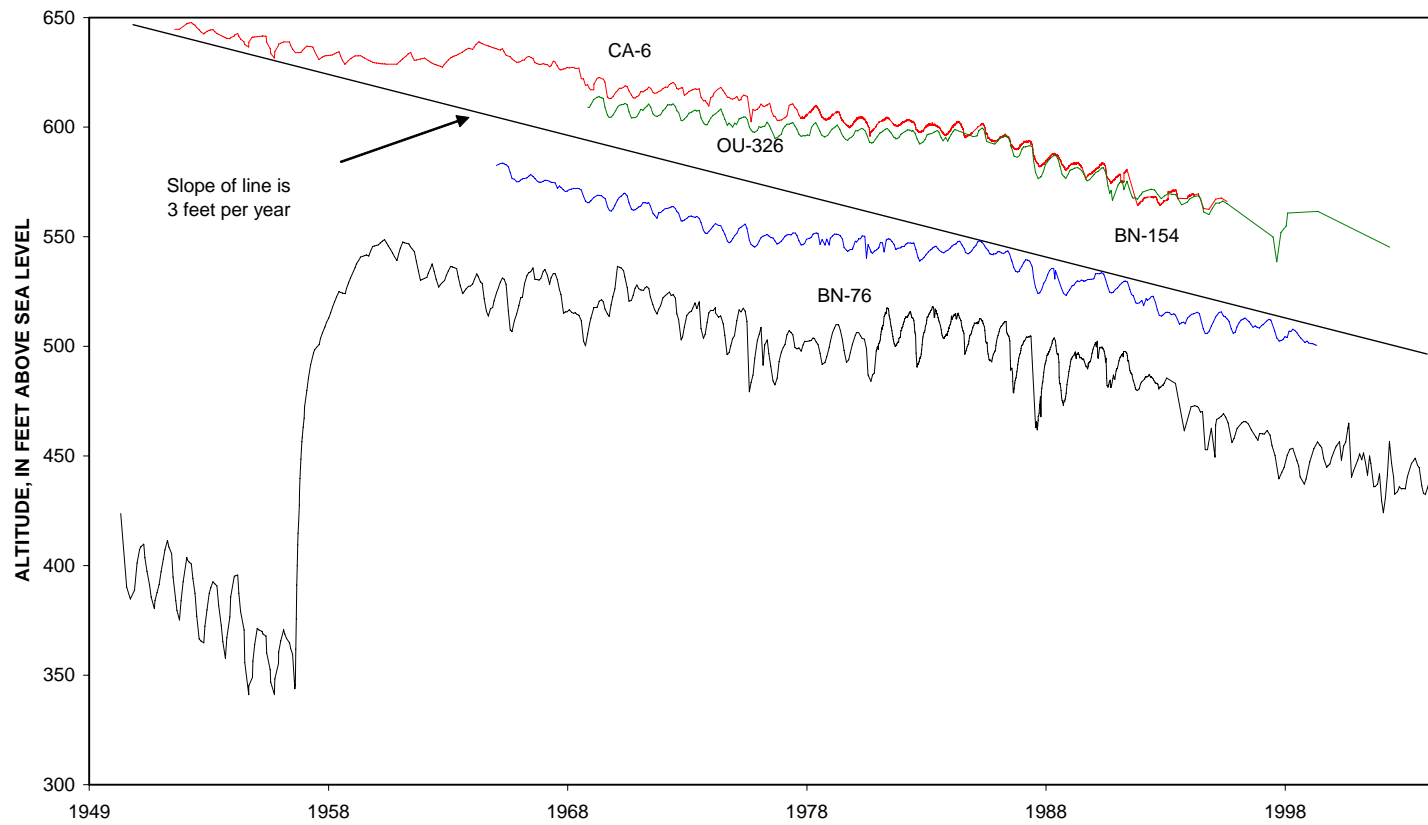


Observation Wells and Section Trace

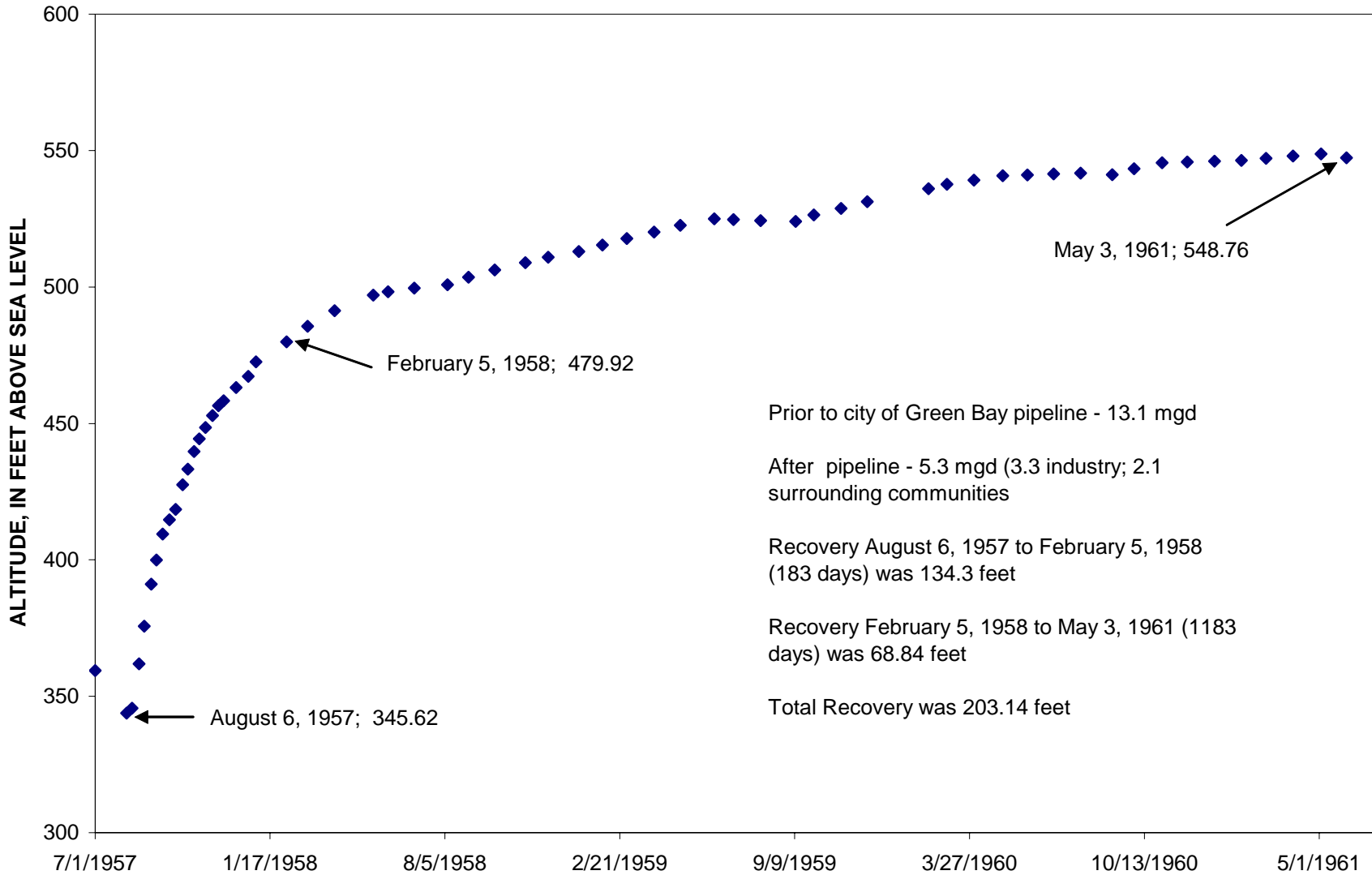


Bn-76 Observation well

A — A' Trace of section



BN-76 Recovery



CBCWA

- Allouez – 1.6 mgd
- Bellevue – 2.0 mgd
- DePere – 2.8 mgd
- Howard – 2.1 mgd
- Lawrence – 0.04 mgd
- Ledgeview – 0.01mgd

TOTAL – 8.5 mgd

OTHER

- Ashwaubenon – 3.8 mgd
- Green Bay – 0.04 mgd
- Hobart – 0.2 mgd
- Scott – 0.09 mgd
- Industry – 0.8 mgd

TOTAL – 4.9 mgd

Take Home Messages

- The recovery will probably be similar to the recovery of 1957 - on the order of 200 feet
- In 1957 - about 130 feet of recovery occurred in the first 6 months and 70 feet in the following 3 years.
- 3 of 4 observation wells used to monitor drawdown in the Lower Fox River Valley are lost.
- Plans to monitor the 2006 recovery need to be made.